

# Grid-Connected PV Capacity (kW) Installed in California

	kW Installed	Percent of Total
<b>California Energy Commission*</b>	40,732	46.27%
<b>California Public Utilities Commission*</b>	22,620	25.69%
<b>Sacramento Municipal Utility District</b>	11,924	13.54%
<b>Los Angeles Department of Water and Power</b>	9,513	10.81%
<b>Pre-1998</b>	1,918	2.18%
<b>City of Riverside Public Utilities</b>	389	0.44%
<b>City of Anaheim Public Utilities</b>	312	0.35%
<b>City of Palo Alto Utilities</b>	275	0.31%
<b>City of Roseville Electric</b>	133	0.15%
<b>City of Pasadena Water and Power</b>	84	0.10%
<b>City of Santa Clara Electric Utility</b>	54	0.06%
<b>City of Ukiah Public Utilities</b>	20	0.02%
<b>City of Glendale Water and Electric</b>	19	0.02%
<b>Pacific Power</b>	19	0.02%
<b>City of Burbank Water and Power</b>	10	0.01%
<b>City of Redding Electric Utility</b>	8	0.01%
<b>City of Alameda Power and Telecom</b>	5	0.01%
<b>City of Lodi Electric Utility</b>	4	0.00%

<b>TOTAL</b>	<b>88,038 kW</b>
--------------	------------------

<b>88.04 MW</b>
-----------------

This analysis tracks the capacity of grid-connected PV installations in California from 1981 until the present. The vast majority of the early installations can be attributed to the work done by the Sacramento Municipal Utility District (SMUD). Beginning in 1998, the Energy Commission's Emerging Renewables ("Buydown") Program began offering rebates for grid-connected "emerging" systems in the service territories of the three largest Investor Owned Utilities (IOUs) - PG&E, SCE and SDG&E. In 2001, the Public Utilities Commission began the Self-Generation Incentive Program. The "Self-Gen" Program also offers rebates, but the program is administered by the utilities (PG&E, SCE, SDG&E and SCGC) directly. The Los Angeles Department of Water and Power (LADWP), as well as many of the smaller utilities, offer their own incentive programs.

\* The Energy Commission's Emerging Renewables Program is open to the ratepayers of PG&E, SCE and SDG&E. The Public Utilities Commission's Self-Generation Incentive Program is open to the ratepayers of PG&E, SCE, SDG&E and the SCGC.

**Updated as of 9/30/04**

# Grid-Connected PV Capacity Installed in California

	YEAR																								
Program	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total
Sacramento Municipal Utility District	0	0	0	1,230	0	1,230	0	0	0	0	0	23	495	675	561	421	405	236	1,220	1,446	1,679	1,390	363	550	11,924
California Energy Commission <sup>*</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181	619	726	4,034	8,102	12,273	14,797	40,732
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	360	487	2,041	4,951	7,417	9,259	24,576
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	250	133	1,118	2,108	3,156	3,673	10,558
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	106	866	1,042	1,675	1,865	5,565
Bear Valley Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	24	0	33
Los Angeles Department of Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	432	589	2,573	3,829	1,988	9,513
California Public Utilities Commission																			0		1,889	9,928	10,803		22,620
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,671	4,208	6,160	12,039
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	2,649	1,671	4,434
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	1,971	2,972	5,017
***Southern California Gas Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1,100	0	1,130
Pre-1998	37	38	11	12	15	63	-	4	59	15	17	477	806	(336)	(250)	378	110	464	-	-	-	-	-	-	1,918
City of Palo Alto Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	98	73	40	33	275
City of Santa Clara Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	34	14	4	0	54
City of Pasadena Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	0	0	84
City of Burbank Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	3	0	3	10
City of Anaheim Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	17	107	50	37	312
City of Redding Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	7	8
City of Glendale Water and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	19
City of Riverside Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	15	214	10	389
City of Roseville Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	44	62	18	0	133
Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	9	0	0	19
City of Alameda Power and Telecom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	1	0	0	5
City of Ukiah Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	8	0	20
City of Lodi Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
TOTAL	37	38	11	1,242	15	1,293	0	4	59	15	17	500	1,301	339	311	799	515	885	1,970	2,724	6,615	14,335	26,770	28,246	88,038
Cumulative Total	37	75	86	1,328	1,342	2,635	2,635	2,639	2,698	2,713	2,730	3,230	4,530	4,869	5,180	5,980	6,494	7,379	9,349	12,073	18,688	33,022	59,793	88,038	

## NOTES

\* The Energy Commission's Emerging Renewables Program is open to the ratepayers of PG&E, SCE and SDG&E. The Public Utilities Commission's Self-Generation Incentive Program is open to the ratepayers of PG&E, SCE, SDG&E and the SCGC.

\*\* The 2004 data is current as of 9/30/04.

\*\*\* The Southern California Gas Company (SCGC) has paid on over 4.5 MW of PV. However, the Gas Company has overlapping territory with several electric utilities that are reporting on the same projects. For projects that have participated in multiple programs with the Gas Company, the totals will be reported by electric utilities. Projects that have only participated in the Gas Company rebate program will be reported under the Gas Company header.

"Pre-1998" Row: These numbers were derived by subtracting the total kW installed by SMUD each year from the totals contained in Appendix A of the 2001 EPRI Report titled "California Renewable Technology Market and Benefits Assessment." In some years, there is a negative number. This obviously did not happen. To be consistent with the EPRI data, it was decided to keep the negative number rather than make more assumptions. Similarly, when determining the number of systems by year, the results showed negative numbers. Again, to be consistent with the EPRI data, it was decided to keep the negative number rather than make more assumptions.

In some cases, the 2002 totals for the smaller utilities reflect the cumulative total of all PV installed, not just the 2002 total.

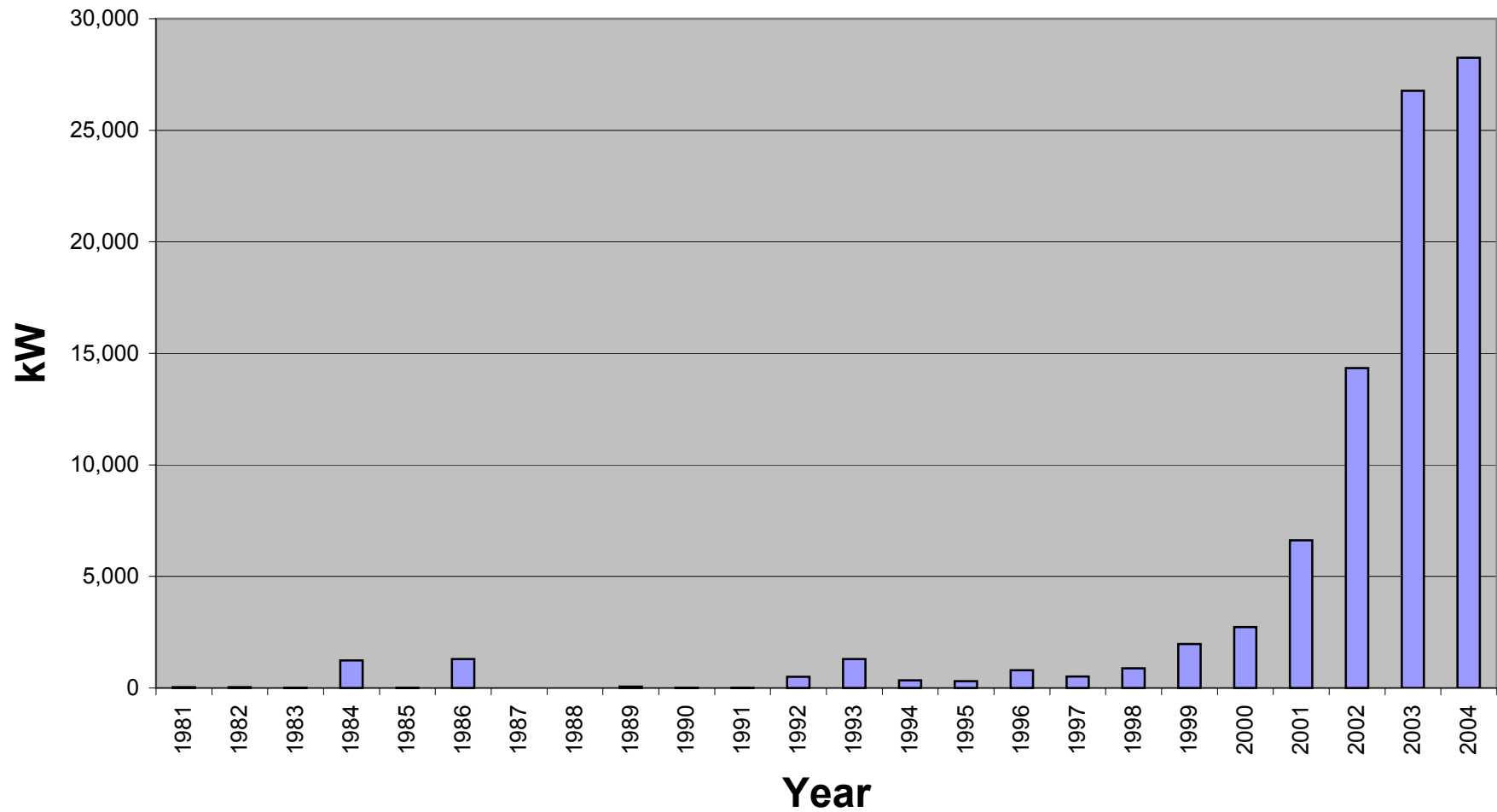
Many of the utilities contacted had, at one time, a solar rebate program. It is possible other utilities have rebate programs, or other utilities may have installed PV, but those are not accounted for in this summary.

The Energy Commission numbers do not include any Publicly Owned Electric Utility installed systems. The Energy Commission has paid for 343 kW of these systems. However, to avoid double counting, these numbers were subtracted from the yearly totals.

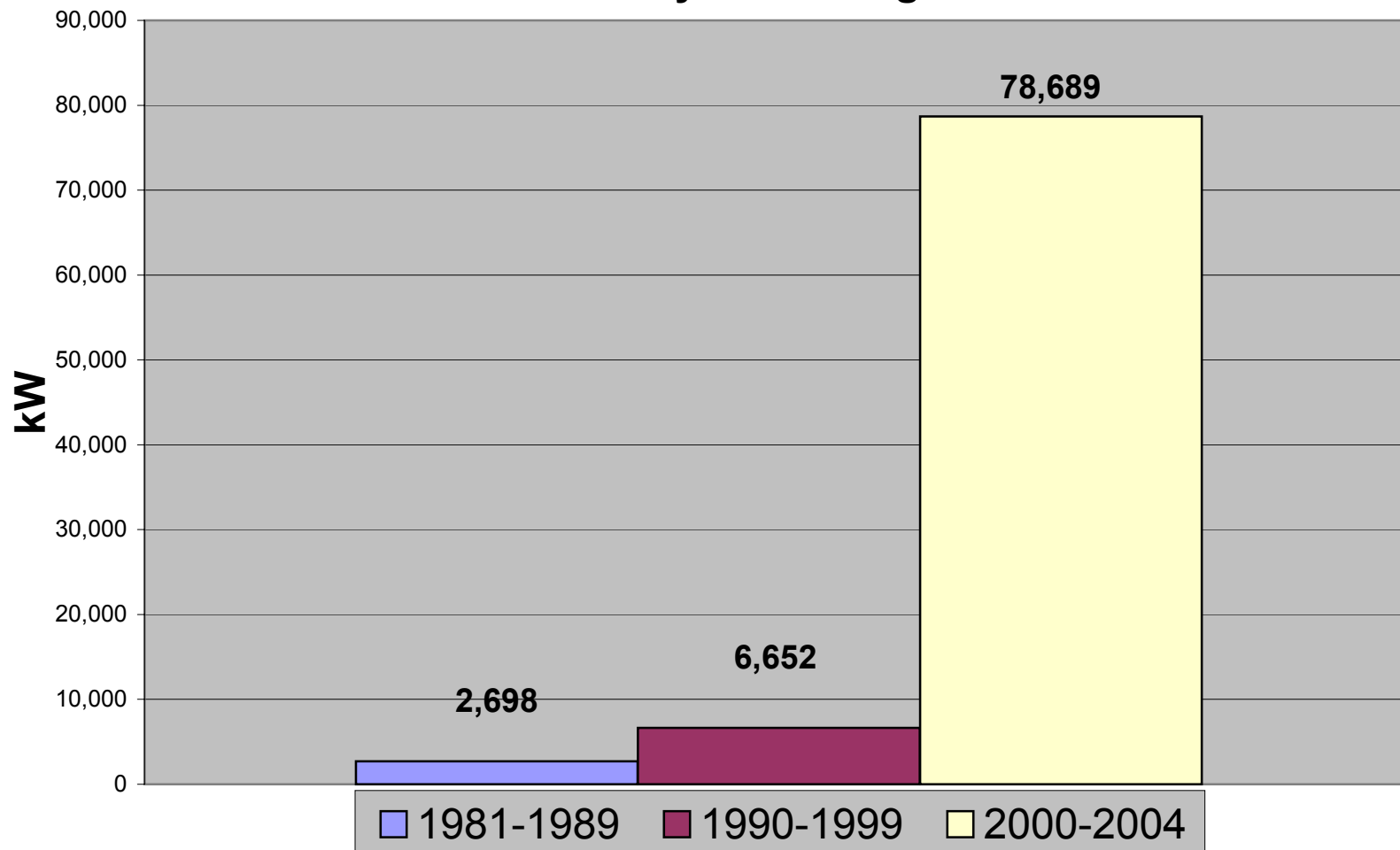
The majority of programs report their watts in PTC. PTC stands for "PVUSA Test Conditions." PTC watt rating is based on 1000 Watt/m<sup>2</sup> solar irradiance, 20 degree Celsius ambient temperature, and 1 meter/second wind speed. The PTC watt rating is lower than the "Standard Test Conditions" (STC), a watt-rating used by manufacturers. Known programs that do not use PTC include: Los Angeles Department of Water and Power (STC); City of Riverside Public Utilities (DC output); Sacramento Municipal Utility District (DC output prior to 2003, then PTC).

Updated as of 9/30/04

# Grid-Connected PV Capacity Installed in California By Year

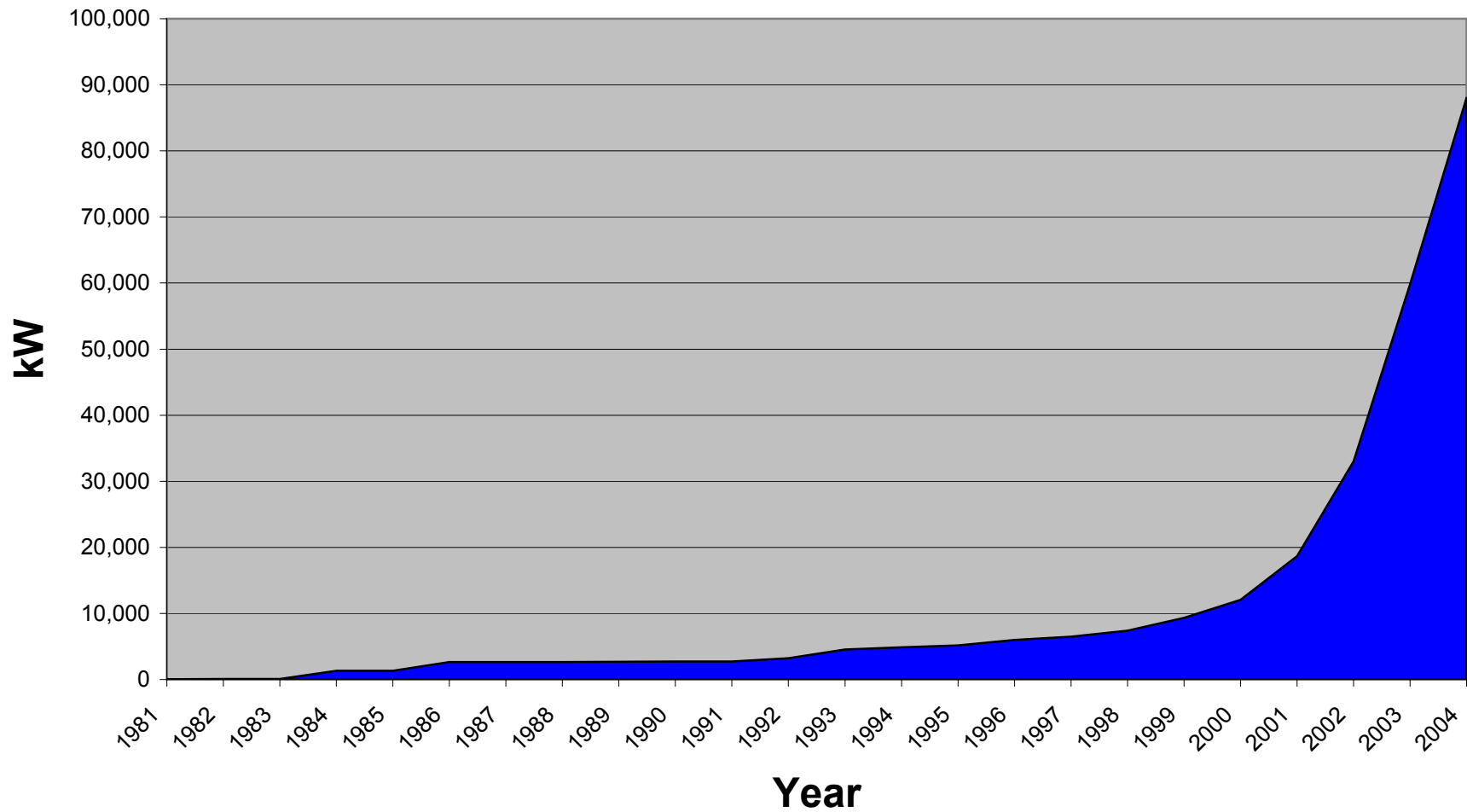


## Grid-Connected PV Capacity Installed in California by Date Range

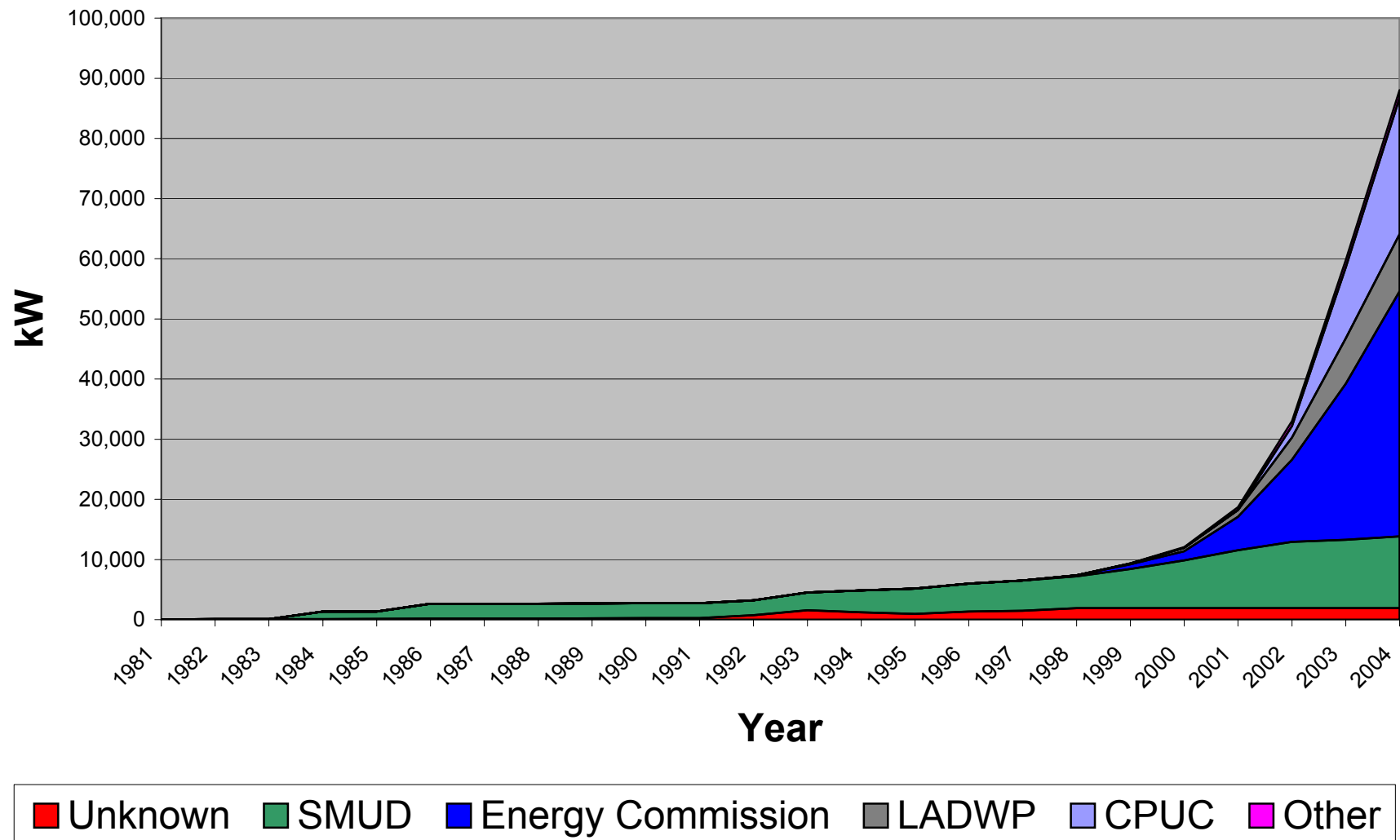


# Grid-Connected PV Capacity Installed in California

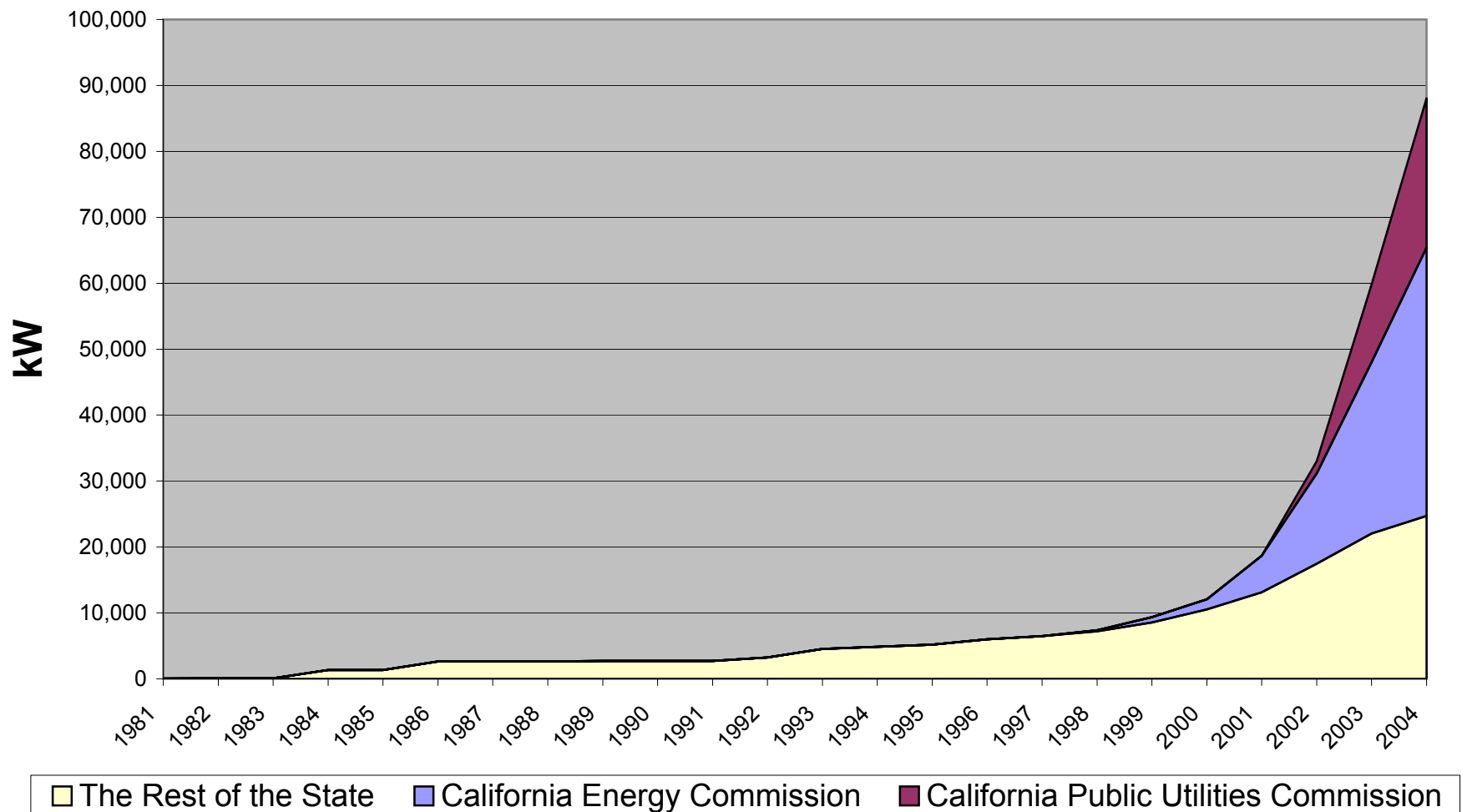
## Cumulative



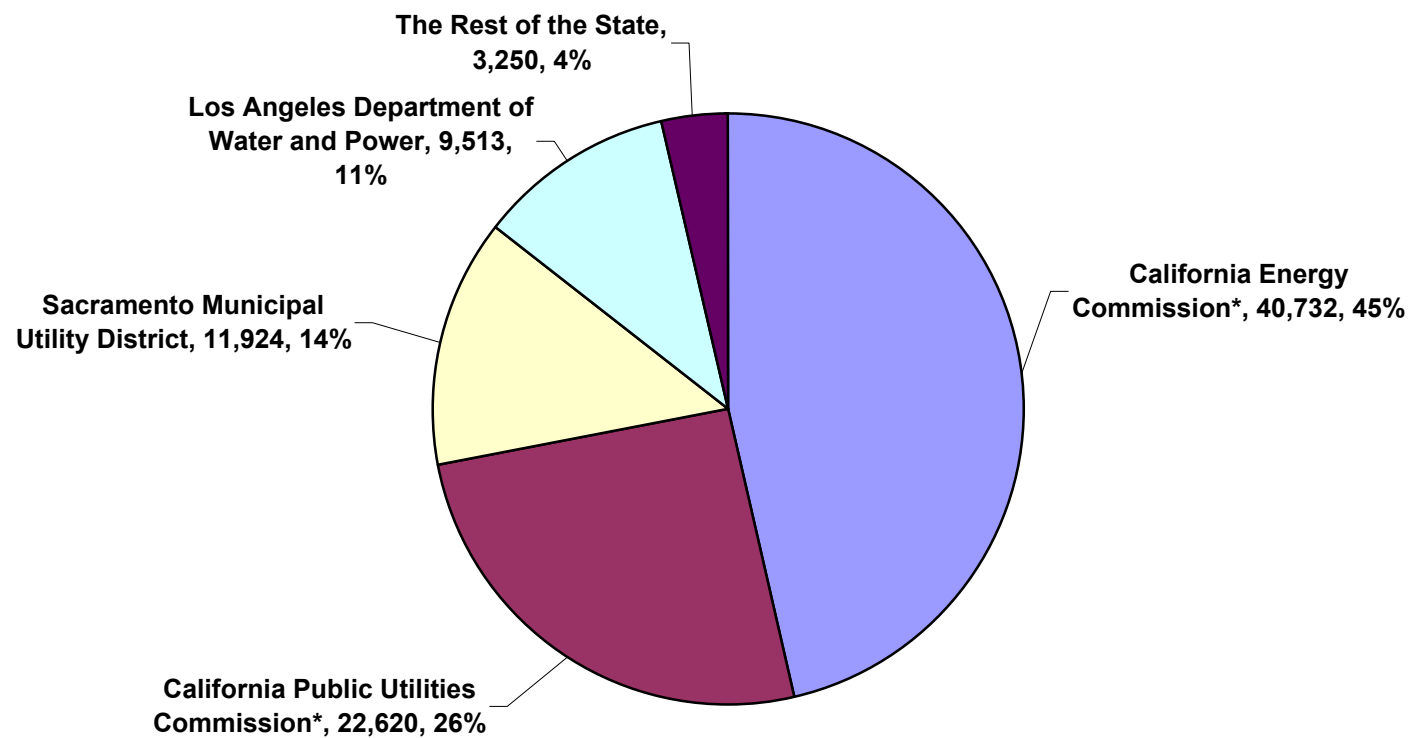
## Grid-Connected PV Capacity Installed in California Cumulative



## Grid-Connected PV Capacity Installed in California Cumulative

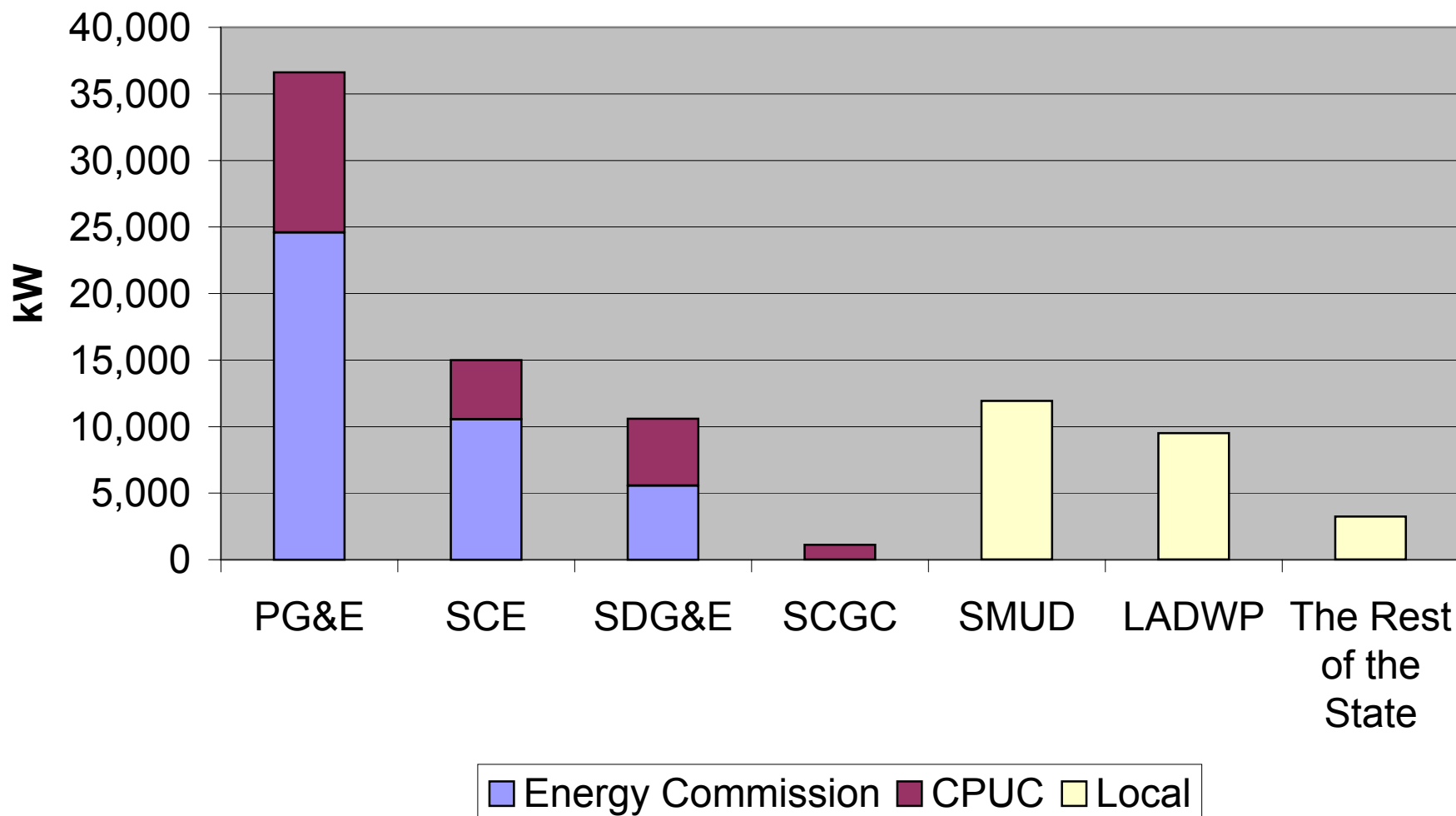


## Grid-Connected PV Capacity Installed in California Cumulative, kW

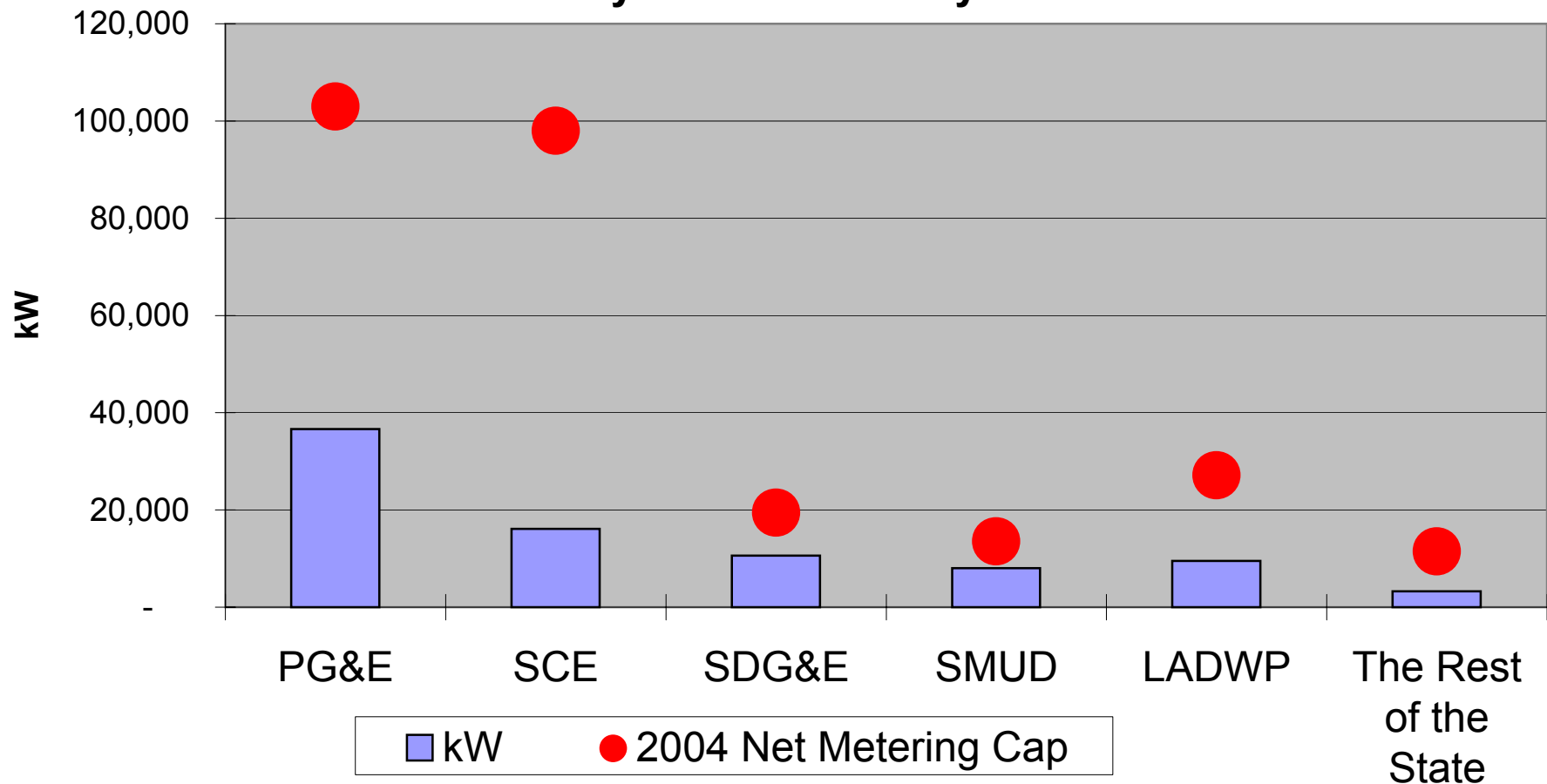




## Grid-Connected PV Capacity Installed in California by Service Territory



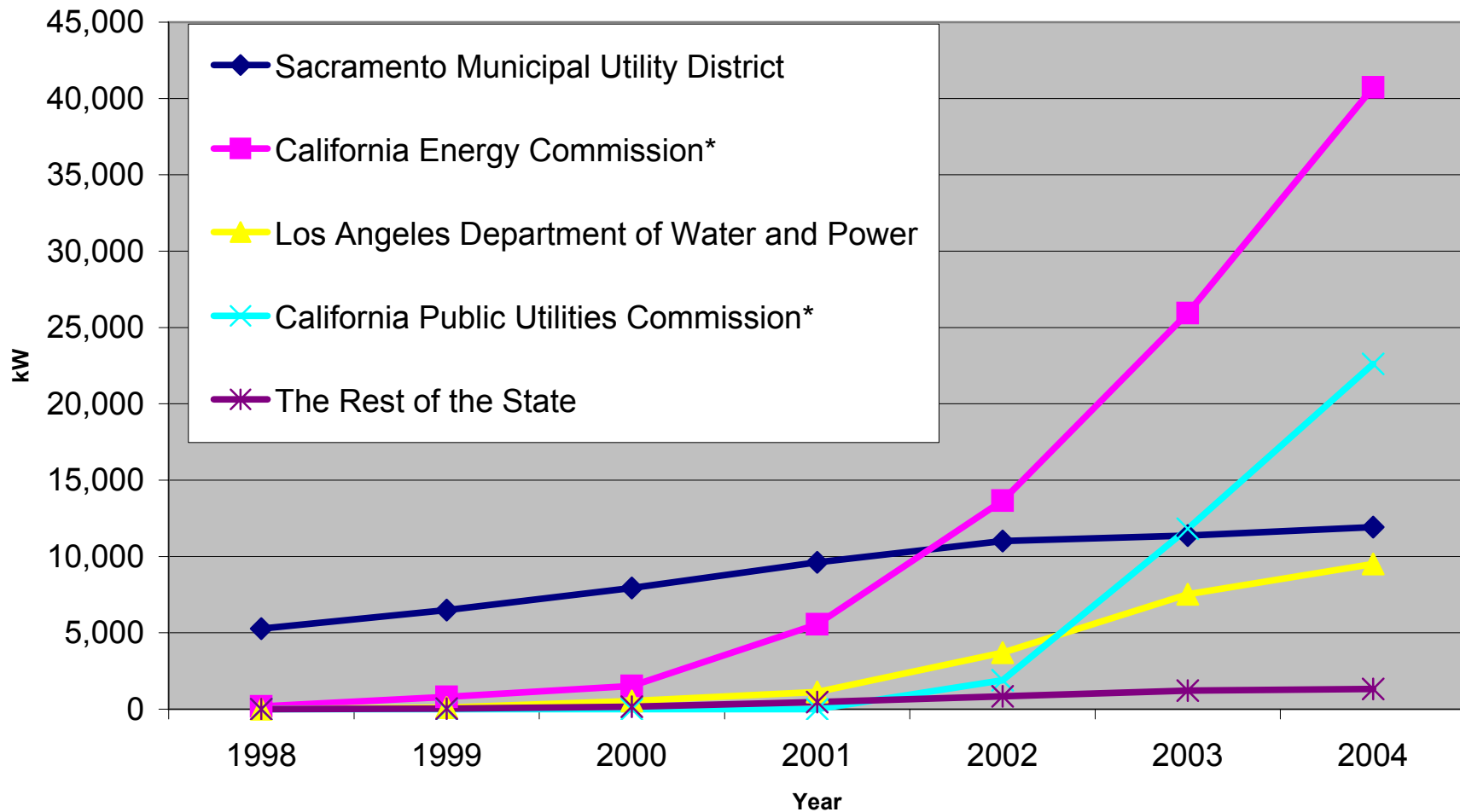
## Estimated Net Metering Caps and Grid-Connected PV Capacity Installed in California by Service Territory



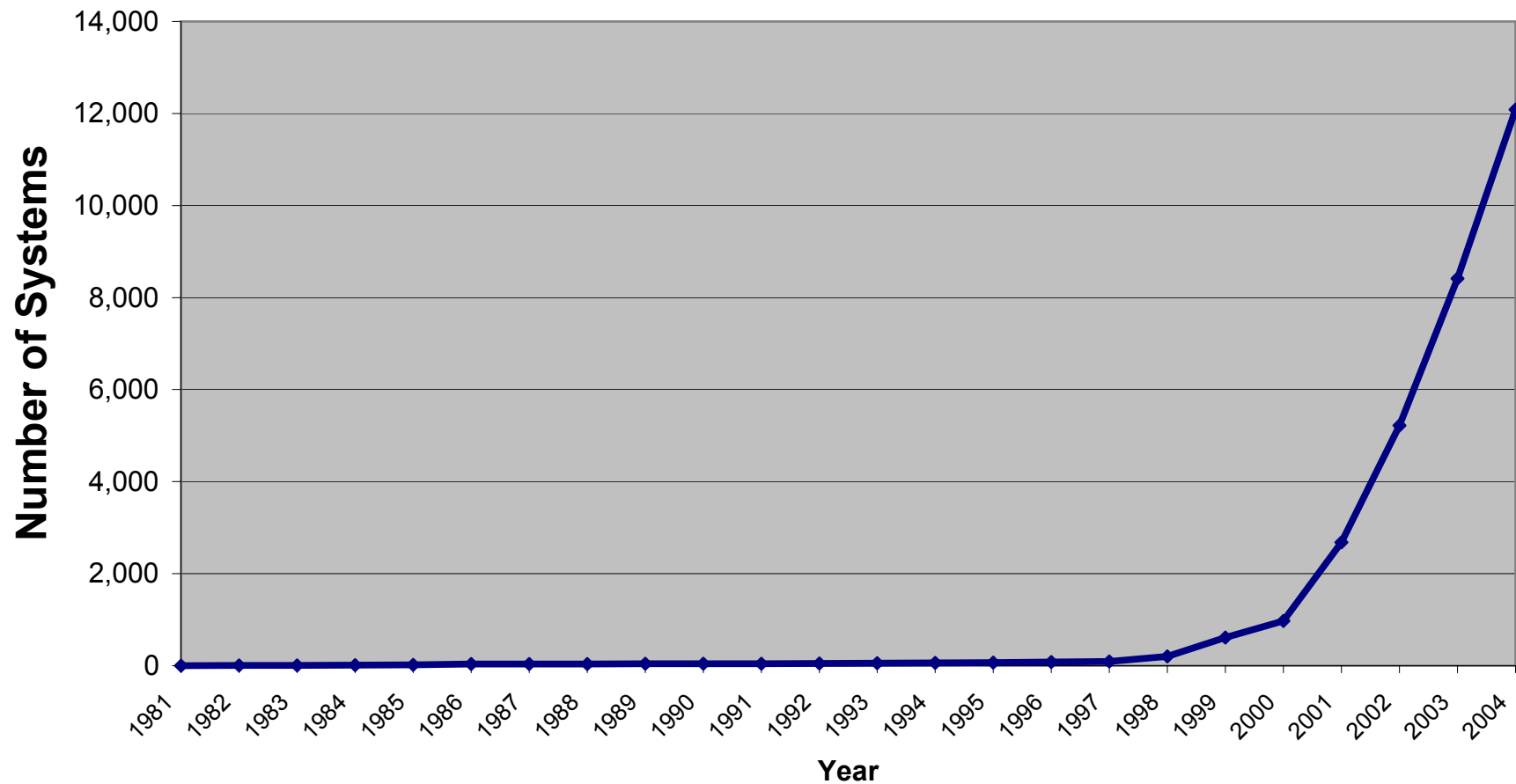
LADWP is exempted from the AB 58 net metering provisions. However, an estimated cap is provided for LADWP as if the cap did apply to them.

# Grid-Connected PV Capacity Installed in California

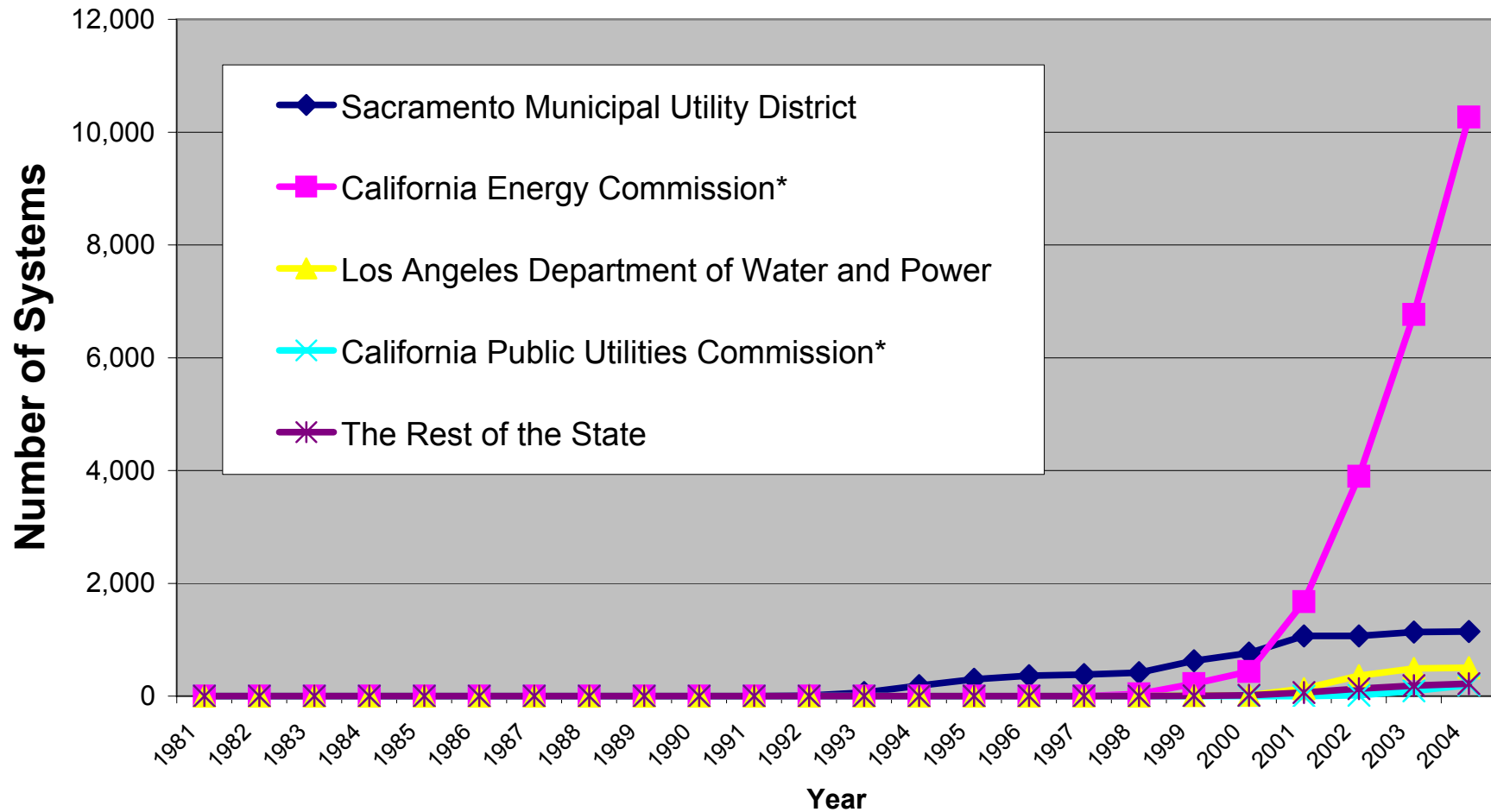
## Cumulative kW Installed by Program: 1998 - 2004



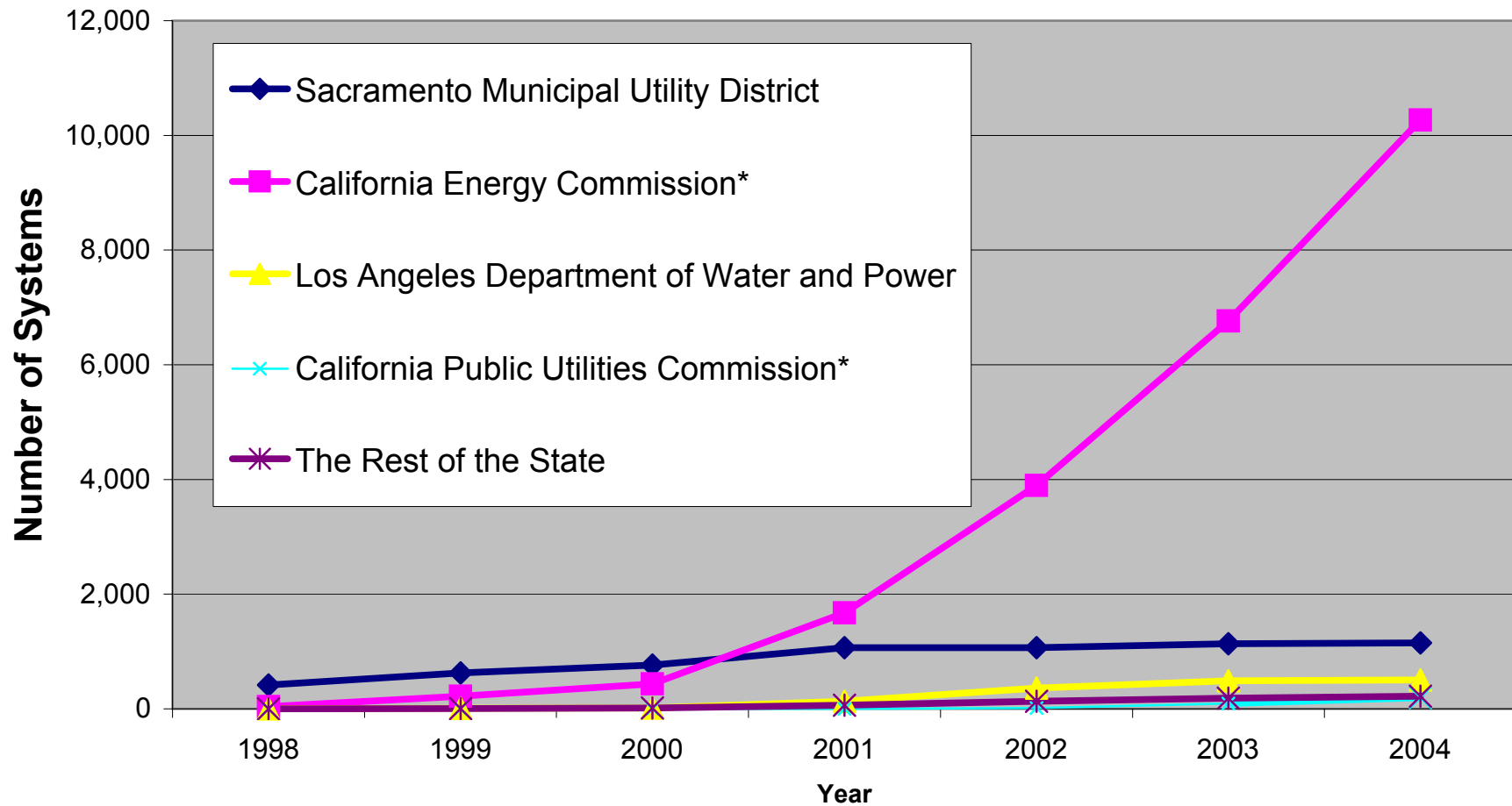
# Number of Grid-Connected PV Systems Installed In California Cumulative



# Number of Grid-Connected PV Systems Installed in California Cumulative by Program



# Number of Grid-Connected PV Systems Installed in California Cumulative, by Program, 1998-2004



# Grid-Connected PV Program Contacts in California

Program	Contact	Telephone	Email
<b>California Energy Commission*</b>		916-653-2834	
<b>California Public Utilities Commission*</b>			
PG&E	Dean Heatherington	415-973-2362	<a href="mailto:DAH7@pge.com">DAH7@pge.com</a>
SCE	Howard Green	626-302-8436	<a href="mailto:greenh@sce.com">greenh@sce.com</a>
SDG&E	Mike Magee	858-244-1177	<a href="mailto:selfgen@sdenergy.org">selfgen@sdenergy.org</a>
SCGC	Marshall Kiyohiro	213-244-5619	<a href="mailto:selfgeneration@socalgas.com">selfgeneration@socalgas.com</a>
<b>Sacramento Municipal Utility District</b>	Mike Keesee	916-732-5244	<a href="mailto:MKeesee@smud.org">MKeesee@smud.org</a>
<b>Los Angeles Department of Water and Power</b>	Josephine Gonzalez	213-367-3151	<a href="mailto:josephine.gonzalez@ladwp.com">josephine.gonzalez@ladwp.com</a>
<b>City of Palo Alto Utilities</b>	Lindsay Joye	650-329-2241	<a href="mailto:pvpartners@cityofpaloalto.org">pvpartners@cityofpaloalto.org</a>
<b>City of Santa Clara Electric Utility</b>	Leslie Brown	408-244-SAVE	<a href="mailto:lbrown@ci.santa-clara.ca.us">lbrown@ci.santa-clara.ca.us</a>
<b>City of Pasadena Water and Power</b>	Mauricio Mejia	626-744-6970	<a href="mailto:mmejia@ci.pasadena.ca.us">mmejia@ci.pasadena.ca.us</a>
<b>City of Burbank Water and Power</b>	John Joyce	818-238-3653	<a href="mailto:jjoyce@ci.burbank.ca.us">jjoyce@ci.burbank.ca.us</a>
<b>City of Anaheim Public Utilities</b>	Dina Predisik	714-765-4182	<a href="mailto:dpredisik@anaheim.net">dpredisik@anaheim.net</a>
<b>City of Redding Electric Utility</b>	Paul Ahern	530-339-7241	<a href="mailto:pahern@reupower.com">pahern@reupower.com</a>
<b>City of Glendale Water and Electric</b>	Ned Bassin	818-548-2748	<a href="mailto:nbassin@ci.glendale.ca.us">nbassin@ci.glendale.ca.us</a>
<b>City of Riverside Public Utilities</b>	Atoya Mendez	909-826-5790	<a href="mailto:amendez@ci.riverside.ca.us">amendez@ci.riverside.ca.us</a>
<b>City of Roseville Electric</b>	Pat Morrison	916-774-5624	<a href="mailto:pmorrison@roseville.ca.us">pmorrison@roseville.ca.us</a>
<b>Pacific Power</b>	Michael Reid	503-813-6052	<a href="mailto:michael.reid@pacificorp.com">michael.reid@pacificorp.com</a>
<b>City of Alameda Power and Telecom</b>	Don Rushton	510-748-3946	<a href="mailto:drushton@alamedapt.com">drushton@alamedapt.com</a>
<b>City of Ukiah Public Utilities</b>	Cindy Sauers	707-463-6295	<a href="mailto:cindys@cityofukiah.com">cindys@cityofukiah.com</a>
<b>City of Lodi Electric Utility</b>	Rob Lechner	209-333-6800 x 2583	<a href="mailto:rlechner@lodielelectric.com">rlechner@lodielelectric.com</a>

# Grid-Connected PV Program Alternate Contacts in California

Program	Contact	Telephone	Email
<b>California Energy Commission*</b>	Todd Lieberg	916-654-4059	tlieberg@energy.state.ca.us
<b>California Public Utilities Commission*</b>			
PG&E	Sara Burmingham	415-973-5187	sebb@pge.com
SCE	Mei Wong		<a href="mailto:Mei.Wong@sce.com">Mei.Wong@sce.com</a>
SDG&E	Nathalie Osborn	858 244-1193	<a href="mailto:nos@sdenergy.org">nos@sdenergy.org</a>
SCGC	Tony Prietto	213-244-3679	aprietto@semprautilities.com
<b>Sacramento Municipal Utility District</b>	Mike Keesee	916-732-5244	MKeesee@smud.org
<b>Los Angeles Department of Water and Power</b>	Paul Costa or Thomas Honles	213-367-4211 or 213-367-3151	<a href="mailto:paul.costa@ladwp.com">paul.costa@ladwp.com</a> or <a href="mailto:thomas.honles@ladwp.com">thomas.honles@ladwp.com</a>
<b>City of Palo Alto Utilities</b>	Lindsay Joye	650-329-2241	pvpartners@cityofpaloalto.org
<b>City of Santa Clara Electric Utility</b>	Leslie Brown	408-244-SAVE	lbrown@ci.santa-clara.ca.us
<b>City of Pasadena Water and Power</b>	Mauricio Mejia	626-744-6970	mmejia@ci.pasadena.ca.us
<b>City of Burbank Water and Power</b>	John Joyce	818-238-3653	jjoyce@ci.burbank.ca.us
<b>City of Anaheim Public Utilities</b>	Dina Predisik	714-765-4182	dpredisik@anaheim.net
<b>City of Redding Electric Utility</b>	Pam Brady-Koss	530-339-7215	pbradykoss@reddingelectricutility.com
<b>City of Glendale Water and Electric</b>	Ned Bassin	818-548-2748	nbassin@ci.glendale.ca.us
<b>City of Riverside Public Utilities</b>	Atoya Mendez	909-826-5790	amendez@ci.riverside.ca.us
<b>City of Roseville Electric</b>	Pat Morrison	916-774-5624	pmorrison@roseville.ca.us
<b>Pacific Power</b>	Michael Reid	503-813-6052	michael.reid@pacificorp.com
<b>City of Alameda Power and Telecom</b>	Don Rushton	510-748-3946	drushton@alamedapt.com
<b>City of Ukiah Public Utilities</b>	Cindy Sauers	707-463-6295	cindys@cityofukiah.com
<b>City of Lodi Electric Utility</b>	Rob Lechner	209-333-6800 x 2583	rlechner@lodielectric.com



## Grid-Connected PV Capacity in California

## Graphing Data

## YEAR

[illegible]

# Grid-Connected PV Systems Installed in California

## YEAR

Program	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total
Sacramento Municipal Utility District	0	0	0	1	0	1	0	0	0	0	0	6	56	124	113	62	17	37	211	134	306	0	68	12	1,148
California Energy Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	180	215	1,237	2,225	2,866	3,502	10,266
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	127	125	650	1,309	1,693	2,239	6,170
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	47	59	310	584	710	795	2,519
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	31	275	332	456	468	1,568
Bear Valley Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	7	0	9
Los Angeles Department of Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	3	115	231	127	16	504
California Public Utilities Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	77	106	198
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	47	60	116
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	23	30	56
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	16	24
***Southern California Gas Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Pre-1998	2	2	4	4	6	16	0	1	4	1	2	-3	-45	-118	-108	-52	-7	37	0	0	0	0	0	0	-254
City of Palo Alto Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	28	22	17	13	90
City of Santa Clara Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	4	1	17	
City of Pasadena Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Burbank Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	4	0
City of Anaheim Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	11	11	11	41
City of Redding Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
City of Glendale Water and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Riverside Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	2	1	9
City of Roseville Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	21	4	45
Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	3
City of Alameda Power and Telecom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Ukiah Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	0	8
City of Lodi Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>17</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>11</b>	<b>6</b>	<b>5</b>	<b>10</b>	<b>10</b>	<b>115</b>	<b>408</b>	<b>360</b>	<b>1,707</b>	<b>2,539</b>	<b>3,196</b>	<b>3,668</b>	<b>12,082</b>
<b>Cumulative Total</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>13</b>	<b>19</b>	<b>36</b>	<b>36</b>	<b>37</b>	<b>41</b>	<b>42</b>	<b>44</b>	<b>47</b>	<b>58</b>	<b>64</b>	<b>69</b>	<b>79</b>	<b>89</b>	<b>204</b>	<b>612</b>	<b>972</b>	<b>2,679</b>	<b>5,218</b>	<b>8,414</b>	<b>12,082</b>	
Sacramento Municipal Utility District	0	0	0	1	1	2	2	2	2	2	2	8	64	188	301	363	380	417	628	762	1,068	1,068	1,136	1,148	12,082
California Energy Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	221	436	1,673	3,898	6,764	10,266	
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	154	279	929	2,238	3,931	6,170	
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	61	120	430	1,014	1,724	2,519	
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	37	312	644	1,100	1,568	
Bear Valley Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	9	9	
Los Angeles Department of Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	15	130	361	488	504	
California Public Utilities Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	92	198	
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	56	116	
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	26	56	
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	24	
***Southern California Gas Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	
Pre-1998	2	4	8	12	18	34	34	35	39	40	42	39	-6	-124	-232	-284	-291	-254	-254	-254	-254	-254	-254	-254	-254
City of Palo Alto Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	38	60	77	90	
City of Santa Clara Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12	16	17	17	
City of Pasadena Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Burbank Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	4	4	
City of Anaheim Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	19	30	41	
City of Redding Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
City of Glendale Water and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Riverside Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	8	9	
City of Roseville Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	41	45	
Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	3	
City of Alameda Power and Telecom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Ukiah Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	8	
City of Lodi Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento Municipal Utility District	0	0	0	1	1	2	2	2	2	2	2	8	64	188	301	363	380	417	628	762	1,068	1,068	1,136	1,148	
California Energy Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	221	436	1,673	3,898	6,764	10,266	
Los Angeles Department of Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	15	130	361	488	504	
California Public Utilities Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	92	198	
The Rest of the State	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	13	62	130	188	220	12,336

### NOTES

Numerous utilities have not yet provided the data to determine how many systems were installed per year.

"Pre-1998" Row: These numbers were derived by subtracting the total number of systems installed by SMUD each year from the totals contained in Appendix A of the 2001 EPRI Report titled "California Renewable Technology Market and Benefits Assessment." In some years, there is a negative number. This obviously did not happen. To be consistent with the EPRI data, it was decided to keep the negative number rather than make more assumptions.